

ABSTRACT

ACOUSTIC INSULATING GLAZING UNIT WITH THERMOVISCOUS
LOSSES

Acoustic insulating glazing unit comprising at least two substrate sheets (2, 3), joined together around their periphery using a device (4) that forms a sealed joint and a spacer frame, which device, with the two substrate sheets (2, 3), defines a flat cavity (5) filled with a gas, characterized in that formed over at least part of the periphery of said cavity (5) is at least one microcavity (5a, 5b), constituting a zone of thermoviscous losses from said cavity (5) along at least one of the internal walls of the two substrate sheets (2, 3) by which said cavity (5) is bounded, the dimensions of a microcavity (5a, 5b) being chosen to promote the propagation of some of the acoustic waves from the cavity (5) into the microcavity, generating thermoviscous losses and thus reducing the acoustic energy of said cavity, means (6e) being provided in order to contain the acoustic waves escaping from said microcavity (5a, 5b).

Figure to be published: figure 1.